

## Cleanup Approach and Progress

Northrop Grumman installed and operates an Onsite Containment System (ONCT), located on the southern side of the former Grumman and Navy site to help control off-site migration of contaminated groundwater that is within site boundaries. The on-site containment system is removing a considerable amount of contamination. The Navy has constructed additional deep profile borings immediately down gradient of the on-site containment system to help confirm that the system is effectively capturing the contamination.

The NYSDEC is the lead agency for this facility. Northrop Grumman also began operating a containment system as an interim measure at the southern boundary of Bethpage Park since December 2009, with periodic shutdowns for maintenance. [It is too early to evaluate its performance of the containment system south of Bethpage Park.](#)

Southeast of the site, the Navy constructed an off-site groundwater hot spot remediation system (GM-38 Area) which was completed in December 2009 and is currently in operation. The Navy has begun a capture zone analysis, which will be used to determine how effectively the system is working, and to improve its effectiveness, if necessary. The Navy also is installing additional monitoring wells to improve the ongoing assessment of the migration of contaminated groundwater. This groundwater monitoring program also contains a program to determine the need for treatment of public water supplies, where necessary.

In January 2012, the Navy submitted a report based on its re-evaluation of the technical and economic feasibility of a number of off-site groundwater containment options. These findings are under discussion among the Navy, NYSDEC, Northrop-Grumman, and EPA.

Additionally, on July 27, 2011, the New York State Department of Environmental Conservation and the New York State Department of Health approved the Navy's *Residential Soil Vapor Intrusion Home Evaluation and Residential Summary Report* (January – March 2011) for the off-site residential area east of the Navy's Site 1, the Former Drum Marshalling Area. Due to vapor intrusion of VOCs east of Site 1, Air Purifying Units (APUs) had been installed on thirteen homes and sub-slab depressurization systems (SSDs) had been installed on six homes.

Subsequent testing indicated that indoor air and sub-slab concentrations at all homes were now below the NYSDOH guideline values. The conclusion of the report was that the APUs and SSDs could be discontinued at individual homes. This was conditioned on the Navy continuing to operate the existing soil vapor extraction system at Site 1 in order to control the source, and continuing to monitor the vacuum field created in the residential neighborhood on a routine basis." The Navy also plans to expand the soil vapor extraction system to increase the source control efficiency.